

ABSTRACT

5 A method for rapidly identifying which one of a plurality of mobile
wireless terminals on-board a corresponding plurality of mobile platforms,
such as aircraft, accessing a target transponded satellite, is causing
interference with one or more non-target satellites orbiting in proximity to the
target satellite. The method involves dividing the plurality of mobile wireless
terminals into two groups and commanding one-group of terminals to stop
10 transmitting. A check is then made to determine which group of terminals is
causing the interference. That particular group is then subdivided
successively by a factor of 2 and alternately checked to see if it is still causing
the interference until a single mobile terminal is identified as the source of the
interference. This binary technique of successively subdividing all of the
15 terminals into smaller and smaller subpluralities allows the terminal which is
causing the interference to be quickly identified from a large plurality of
terminals accessing the target transponded satellite.